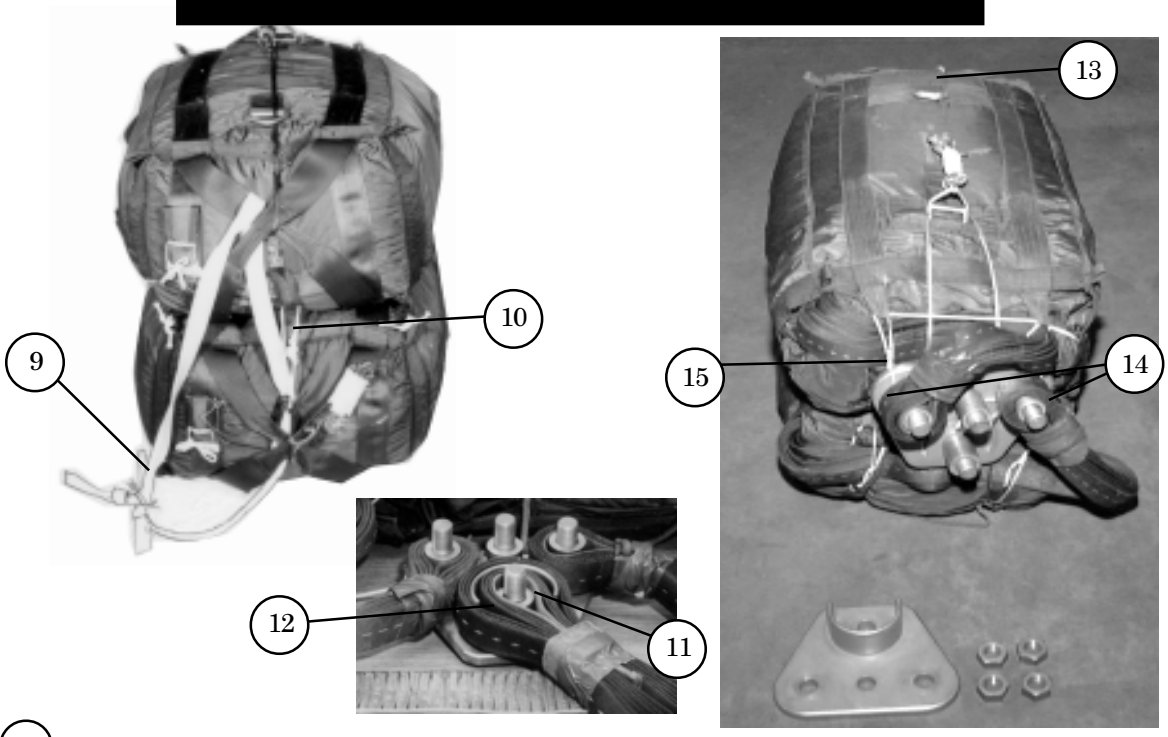
CAUTION
Be sure the bag retaining tie does not pass through the bridle loop of the top parachute.



9 Use a 103-inch length of 1-inch tubular nylon webbing for the bag retaining tie. Run the tie through the bag retaining straps of the bottom parachute, through the bridle loop, and up through the bag retaining straps of the top parachute. Tie the ends of the retaining tie together with a surgeon's knot, a locking knot, and an overhand knot in each running end.

10 Tie the bridle loops together with one length of type III nylon cord to form a break cord.

11 Place a cotton buffer on the bottom pin of the four-point link.

12 Place the free end of the extraction line on the bottom pin and the separator. Divide the plies between the pin and the separator.

13 Fold the bag retaining tie, and tape the folds in place.

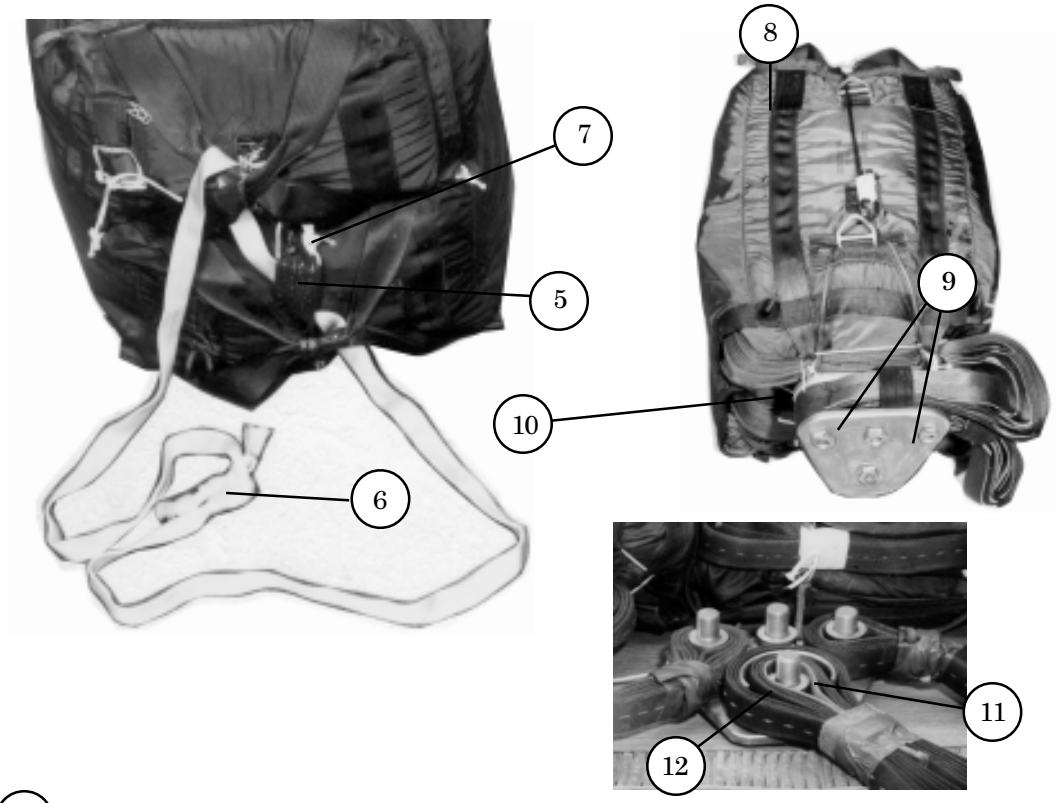
14 Place the top adapter web on the left pin. Place the adapter web of the bottom parachute on the right pin and replace the link cover. Push the keepers against the pins, and tape the keepers in place with cloth-backed tape.

15 Tie the link assembly to the upper bag closing loops of the top parachute with one length of type III nylon cord. Make sure the cord passes through the link and under the top pins.

Figure 3-68. Clustering Extraction Parachutes for an Initial Extraction from C-130/C-141 Aircraft (Continued)

1. Remove the safety loop from around the bent V-ring. Extend the safety loop around the opposite side of the bag from the bent V-ring, and tie it tightly in place with the pendulum line.
2. Be sure 9 to 12 inches of the adapter web extend beyond the bag closing tie.
3. Prepare a second parachute as in steps 1 and 2 above and place it on top of the first parachute.
4. Tie the parachutes together at each corner with single lengths of type III nylon cord with a surgeon's knot, a locking knot, and an overhand knot in each free end.

Figure 3-69. Clustering Extraction Parachutes for a Sequential Extraction



5 Pull each bridle loop from its bag far enough to untie the bag retaining lines.

6 Use a 103-inch length of 1-inch tubular nylon webbing for the bag retaining tie. Run the tie through the bag retaining straps of the bottom parachute, through the bridle loop, and up through the bag retaining straps of the top parachute. Tie the ends of the retaining tie together with a surgeon's knot, a locking knot, and an overhand knot in the running end.

7 Tie the bridle loops together with a single length of type III nylon cord.

8 Fold and tape the bag retaining tie.

9 Place the top adapter web on the left pin. Place the adapter web of the bottom parachute on the right pin and replace the link cover. Push the keepers against the pins, and tape the keepers in place with cloth-backed tape.

10 Tie the link assembly to the upper bag closing tabs of the top parachute with a single length of type III nylon cord. Make sure the cord passes through the link and under the top pins.

11 Place a cotton buffer on the bottom pin of the four-point link.

12 Place the free end of the extraction line on the bottom pin and the line separator. Divide the plies between the pin and the separator.

Figure 3-69. Clustering Extraction Parachutes for a Sequential Extraction (Continued)

C-5 AIRCRAFT

3-31. A low-velocity airdrop platform load rigged for delivery from a C-5 aircraft needs an extraction line based on the size of the extraction parachute and the platform's location within the aircraft. Because extraction line length varies depending on the platform's location within the aircraft, attachment of cargo extraction parachutes to extraction lines and joining of extraction lines shall be accomplished after the platform is loaded aboard the aircraft. Attach the extraction line to the cargo extraction parachute and join extraction lines as follows.

a. One 15-Foot Cargo Extraction Parachute. Attach a continuous 160-foot (1-loop), type XXVI nylon webbing extraction line to the parachute by adapting the procedures shown in Figure 3-66. Platform loads using a 15-foot cargo extraction parachute must be positioned so that the rear edge of the platform is located between aircraft fuselage stations (FSs) 1187 and 1971.

b. One 22-Foot Cargo Extraction Parachute. Attach the extraction line to the extraction parachute and join extraction lines as follows.

(1) Rear edge of the platform located between aircraft FSs 1427 and 1971. The 22-foot cargo extraction parachute needs a continuous 140-foot (3-loop), type XXVI nylon webbing extraction line. Attach the line to the parachute by adapting the procedures shown in Figure 3-67.

(2) Rear edge of the platform located between aircraft FSs 707 and 1426. The 22-foot cargo extraction parachute needs a 60-foot (3-loop), type XXVI nylon webbing extraction line; a 140-foot (3-loop), type XXVI nylon webbing extraction line; and a 5 1/2-inch, two-point link assembly. Attach the 60-foot extraction line to the parachute by adapting the procedures shown in Figure 3-70. Join the 140-foot extraction line to the 60-foot extraction line by adapting the procedures shown in Figure 3-70.

c. One 28-Foot Cargo Extraction Parachute. Attach the extraction line to the extraction parachute and join extraction lines as follows.

(1) Rear edge of the platform located between aircraft FSs 1427 and 1971. The 28-foot cargo extraction parachute needs a continuous 140-foot (3-loop), type XXVI nylon webbing extraction line. Attach the line to the parachute by adapting the procedures shown in Figure 3-67.

(2) Rear edge of the platform located between aircraft FSs 707 and 1426. One 28-foot cargo extraction parachute needs a 60-foot (3-loop), type XXVI nylon webbing extraction line; a 140-foot (3-loop), type XXVI nylon webbing extraction line; and a 5 1/2-inch, two-point link assembly. Attach the 60-foot extraction line to the parachute by adapting the procedures shown in Figure 3-67. Join the 140-foot extraction line to the 60-foot extraction line by adapting the procedures shown in Figure 3-70.

d. Two 28-Foot Cargo Extraction Parachutes. A cluster of two 28-foot cargo extraction parachutes is prepared for an initial extraction as shown in Figure 3-72 and for a sequential extraction as shown in Figure 3-69. Attach the extraction line to the extraction parachutes and join extraction lines as follows.

(1) Rear edge of the platform located between aircraft FSs 1667 and 1971. Two 28-foot cargo extraction parachutes need a continuous 120-foot (6-loop), type XXVI nylon webbing extraction line and a four-point link assembly. The extraction line is attached to the four-point link assembly of the parachute cluster after the cluster has been installed in the aircraft.

(2) Rear edge of the platform located between aircraft FSs 947 and 1666. Two 28-foot cargo extraction parachutes need a 60-foot (6-loop), type XXVI nylon webbing extraction line; a 120-foot (6-loop), type XXVI nylon webbing extraction line; a four-point link assembly; and an extraction line coupler assembly. Attach the 60-foot extraction line to the four-point link assembly of the parachute cluster after the cluster has been installed in the aircraft. Join the 120-foot extraction line to the 60-foot extraction line by adapting the procedures shown in Figure 3-71.

(3) Rear edge of the platform located forward of aircraft FSs 947.Two 28-foot cargo extraction parachutes need two 120-foot (6-loop), type XXVI nylon webbing extraction lines; a four-point link assembly; and an extraction line coupler assembly. Attach a 120-foot extraction line to the four-point link assembly of the parachute cluster after the cluster has been installed in the aircraft. Join the two 120-foot extraction lines together by adapting the procedures shown in Figure 3-71. Clustering extraction parachutes for an initial extraction from a C-5 aircraft is shown in Figure 3-72.

e. Derigged 28-Foot Cargo Extraction Parachutes. Clustered 28-foot extraction parachutes must be derigged for an initial extraction as follows.

(1) Remove the four-point link assembly.

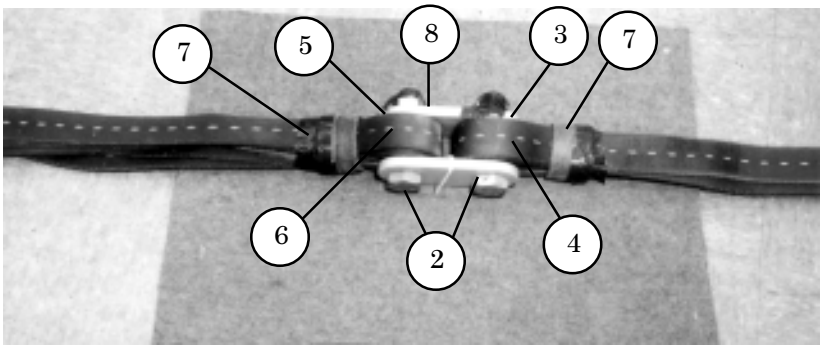
(2) Remove the deployment bag clustering ties.

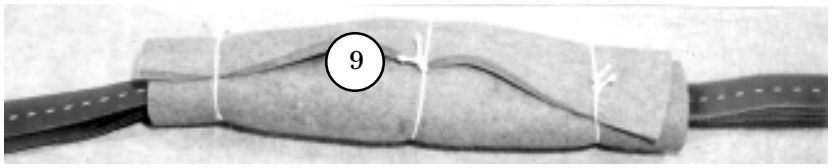
(3) Remove the parachutes' bridle loop tie.

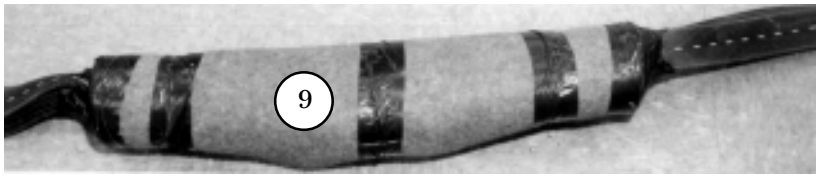
(4) Remove tape from the deployment bag retaining tie. Do not remove the tie.

(5) S-fold each pendulum line, and tape each fold to its deployment bag.

CAUTION
When connecting extraction lines, attach the shortest extraction line to the extraction parachute.



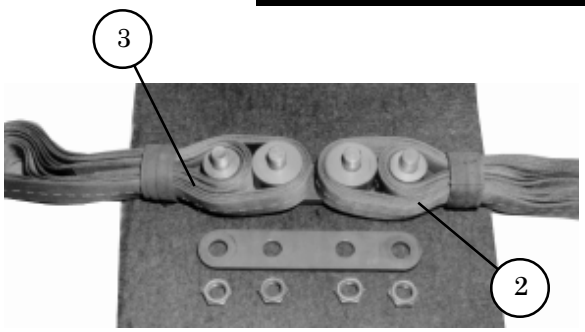


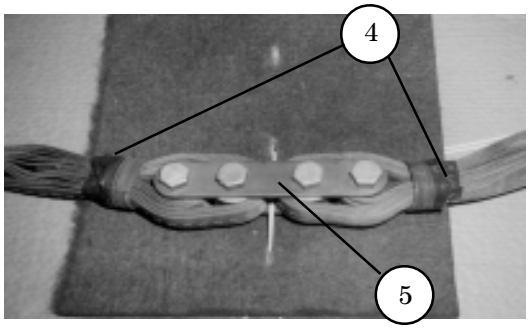


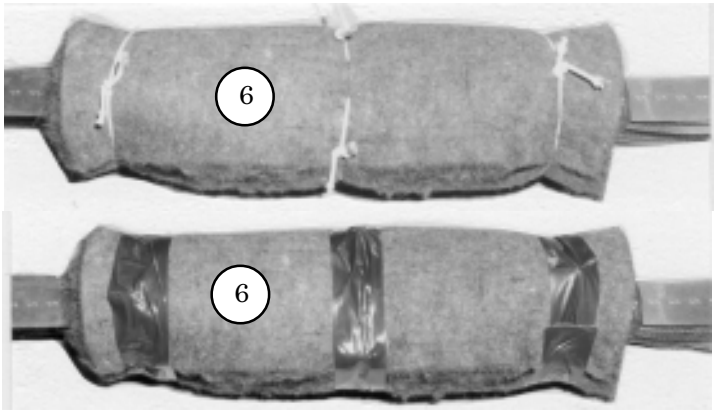
1. Remove the temporary handling and transport tie from both sling/extraction line bags (not shown).
2. Place a large spacer on each bolt of the 5 1/2-inch, two-point link.
3. Add a cotton buffer to the inside of the load-attaching loop of the extraction line connected to the extraction parachute.
4. Fit the buffered extraction line loop on one of the spacers attached in step 2, above.
5. Add a cotton buffer to the inside of the parachute-attaching loop of the extraction line connected to the EFTC.
6. Fit the buffered loop on the free spacer of the two-point link.
7. Run a length of tape around each extraction line keeper near the two-point link.
8. Bolt the side plate on the two-point link. Wrench tighten the nuts. Run a length of tape around the link and over each nut and bolt end (not shown).
9. Wrap the link with 1/2-inch felt padding. Pass type III nylon cord around the felt in three places and tie to keep the felt from slipping. Tape over each type III nylon cord tie with cloth-backed tape.

Figure 3-70. Connecting Type XXVI (3-Loop) Extraction Lines Together for C-5 Airdrop

CAUTION
When connecting extraction lines, attach the shortest extraction line to the extraction parachute.

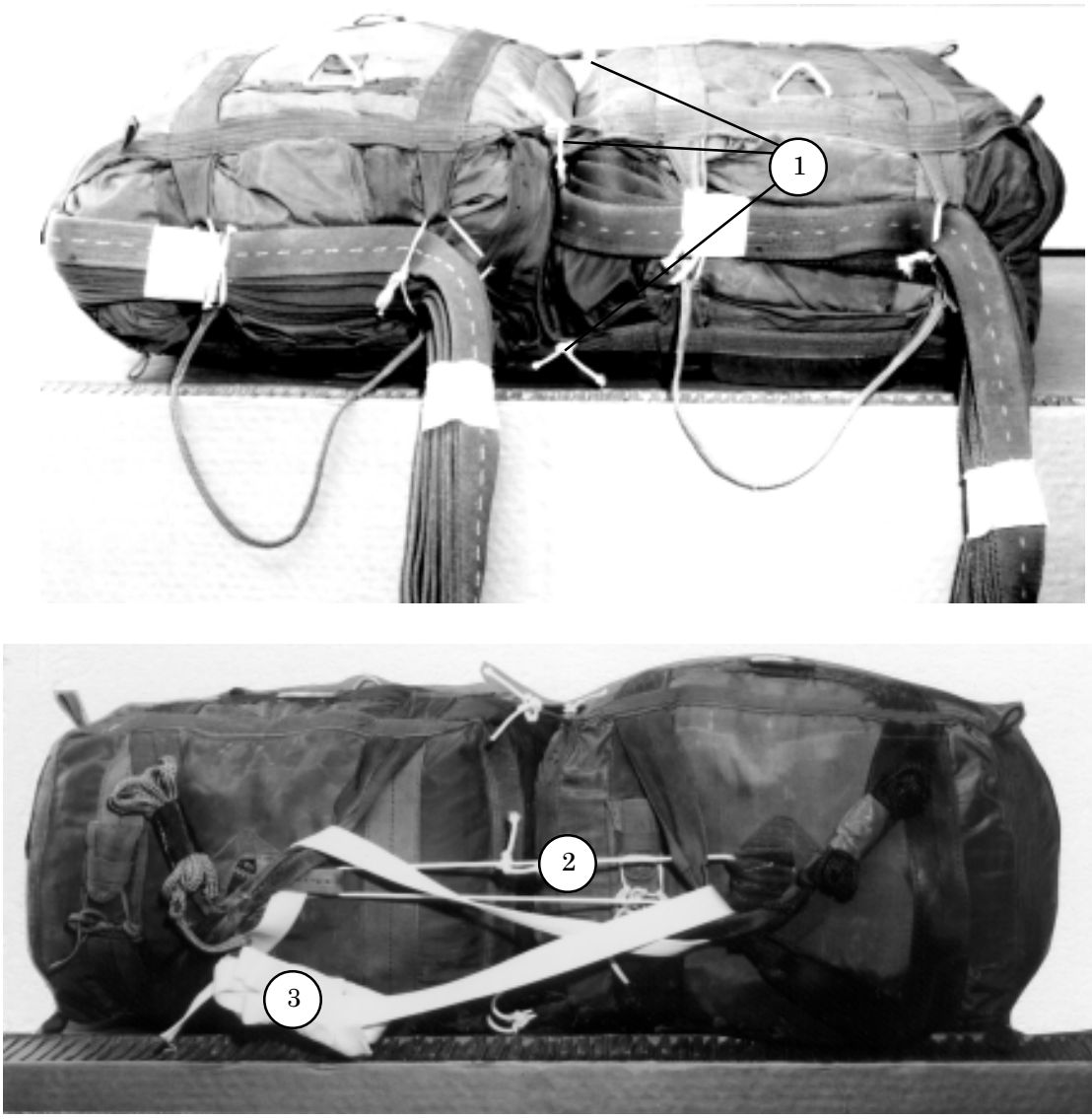






1. Remove the temporary handling and transport tie from both sling/extraction bags (not shown).
2. Divide the plies of the extraction line connected to the extraction parachutes and place loops over two spacers of one end of an extraction line coupler assembly.
3. Divide the plies of the extraction line connected to the EFTC and place loops on the two free spacers of the extraction line coupler assembly.
4. Run a length of tape around each extraction line keeper near the extraction line coupler assembly.
5. Bolt on the side plate of the extraction line coupler assembly. Wrench tighten the nuts. Run a length of tape around the extraction line coupler assembly and over each nut and bolt end (not shown).
6. Wrap the extraction line coupler assembly with 1/2-inch felt padding. Tie the felt padding in three places with type III nylon cord. Tape over each type III nylon cord tie with cloth-backed tape.

Figure 3-71. Connecting Type XXVI (6-Loop) Extraction Lines Together for C-5 Airdrop



1. Cluster the parachutes in four places by tying the adjacent inboard clustering loops of the parachutes with single lengths of type III nylon cord.
2. Tie the bridle loops together with one length of type III nylon cord to form a breakcord.
3. S-fold the 1-inch tubular nylon webbing deployment bag retaining tie, and tape the folds together.

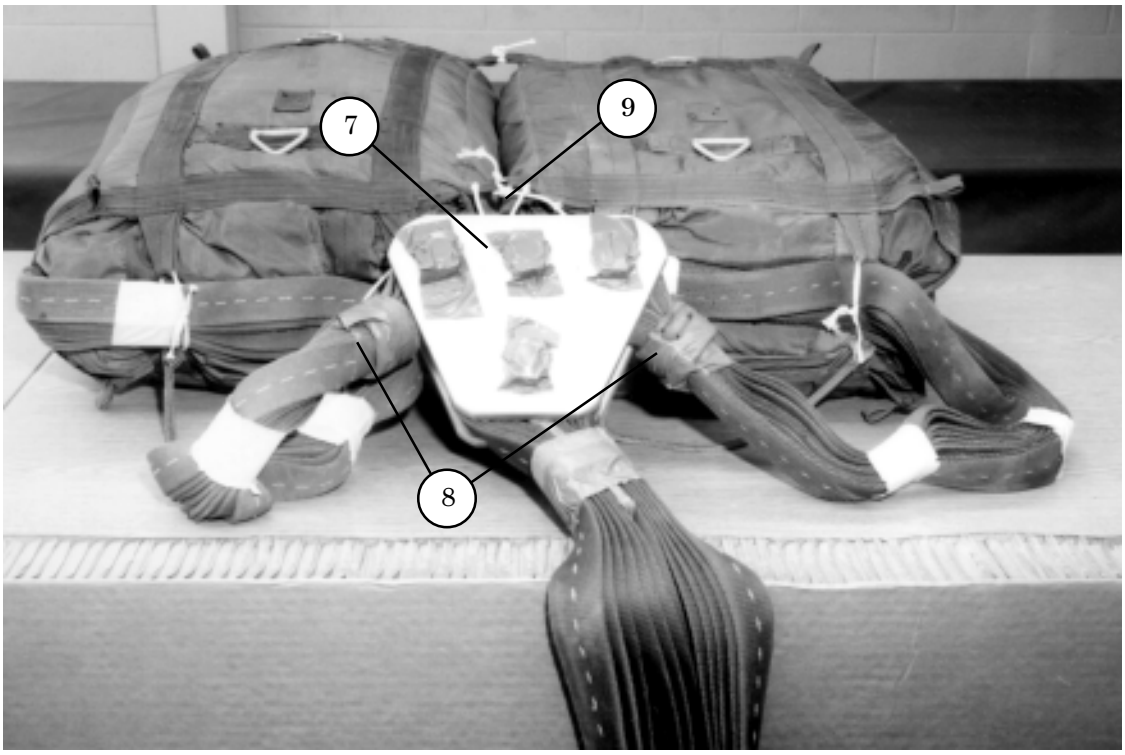
Figure 3-72. Clustering Extraction Parachutes for an Initial Extraction from C-5 Aircraft

(4) Place the left parachute adapter web loop on the top left pin of a four-point link assembly. Place the right parachute adapter web loop on the top right pin.

(5) Place a cotton buffer on the bottom pin of the four-point link.

(6) Place the free end of the extraction line on the bottom pin and the line separator. Divide the plies between the pin and the separator.

Figure 3-72. Clustering Extraction Parachutes for an Initial Extraction from C-5 Aircraft (Continued)



7 Replace the link cover, and wrench tighten the nuts on the bolts. Run a length of cloth-backed tape over each nut.

8 Push the keepers against the pins, and tape the keepers in place with cloth-backed tape.

9 Center the four-point link against the mouths of the parachute deployment bags. Tie the link to the top inboard bag closing loop on each parachute with a length of type III nylon cord. Make sure the cord passes through the link and under the top pins.

Note: When tying the ends of the cord together, use a surgeon's knot, a locking knot, and an overhand knot in each free end.

Figure 3-72. Clustering Extraction Parachutes for an Initial Extraction from C-5 Aircraft (Continued)